

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/658,617
Source: JFW16
Date Processed by STIC: 10/13/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER

10/658,617

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 **Wrapped Nucleics** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2 **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 **Misaligned Amino Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 **Variable Length** Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 **PatentIn 2.0 "bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 **Skipped Sequences (OLD RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 **Skipped Sequences (NEW RULES)** Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 **Use of n's or Xaa's (NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 **Invalid <213> Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 **Use of <220>** Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 **PatentIn 2.0 "bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 **Misuse of n/Xaa** "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 10/13/2005

PATENT APPLICATION: US/10/658,617

TIME: 10:47:36

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

3 <110> APPLICANT: MITCHELL, Lloyd G.
 4 OTTO, Edward
 5 MERRIL, Carl R.
 7 <120> TITLE OF INVENTION: TRANS-SPLICING MEDIATED PHOTODYNAMIC THERAPY
 9 <130> FILE REFERENCE: 027705.00026
 11 <140> CURRENT APPLICATION NUMBER: 10/658,617
 12 <141> CURRENT FILING DATE: 2003-09-09
 14 <150> PRIOR APPLICATION NUMBER: 10/374,784
 15 <151> PRIOR FILING DATE: 2003-02-25
 17 <150> PRIOR APPLICATION NUMBER: 60/359,948
 18 <151> PRIOR FILING DATE: 2002-02-25
 20 <160> NUMBER OF SEQ ID NOS: 21
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 8
 26 <212> TYPE: RNA
 27 <213> ORGANISM: Artificial
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: 5' splice site consensus
 32 <400> SEQUENCE: 1
 33 agguragu
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 7
 38 <212> TYPE: RNA
 39 <213> ORGANISM: Artificial
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: branchpoint consensus sequence in mammals
 45 <220> FEATURE:
 46 <221> NAME/KEY: misc_feature
 47 <222> LOCATION: (2)..(2)
 48 <223> OTHER INFORMATION: n is a, c, g, or u
 50 <400> SEQUENCE: 2

Does Not Comply
 Corrected Diskette Needed
 (pg-3,4)

W--> 51 ynyurac

54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 7
 56 <212> TYPE: RNA
 57 <213> ORGANISM: Artificial
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: yeast branchpoint consensus
 62 <400> SEQUENCE: 3
 63 uacuaac
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 7

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```

68 <212> TYPE: RNA
69 <213> ORGANISM: Artificial
71 <220> FEATURE:
72 <223> OTHER INFORMATION: yeast consensus branchpoint
74 <400> SEQUENCE: 4
75 uacuaac 7
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 8
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial
83 <220> FEATURE:
84 <223> OTHER INFORMATION: GT rich sequences
86 <400> SEQUENCE: 5
87 ygtgtt yy 8
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 7
92 <212> TYPE: RNA
93 <213> ORGANISM: Artificial
95 <220> FEATURE:
96 <223> OTHER INFORMATION: branchpoint
98 <400> SEQUENCE: 6
99 uacuaac 7
102 <210> SEQ ID NO: 7
103 <211> LENGTH: 29
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial
107 <220> FEATURE:
108 <223> OTHER INFORMATION: specific primer 5'
110 <400> SEQUENCE: 7
111 aagcttttac tgctcgttct tcagcacgc 29
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 20
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Luc-33R
122 <400> SEQUENCE: 8
123 cagggtcgga ctgatgaac 20
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 21
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Luc-34F
134 <400> SEQUENCE: 9
135 ggatatcgcc ctgatcaaga g 21
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 6
140 <212> TYPE: DNA

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Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

141 <213> ORGANISM: Artificial
 143 <220> FEATURE:
 144 <223> OTHER INFORMATION: (Fig. 3) functional PTM
 146 <400> SEQUENCE: 10
 147 gctagc 6
 150 <210> SEQ ID NO: 11
 151 <211> LENGTH: 6
 152 <212> TYPE: RNA
 153 <213> ORGANISM: Artificial
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: (Fig. 3) Functional PTM
 158 <400> SEQUENCE: 11
 159 ccgcgg 6
 162 <210> SEQ ID NO: 12
 163 <211> LENGTH: 47
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Artificial
 167 <220> FEATURE:
 168 <223> OTHER INFORMATION: (Fig. 3) Functional PTM
 170 <400> SEQUENCE: 12
 171 tactaactgg tacctcttct tttttttttg atatacctgca gggcgggc
 174 <210> SEQ ID NO: 13
 175 <211> LENGTH: 6
 176 <212> TYPE: DNA
 177 <213> ORGANISM: Artificial
 179 <220> FEATURE:
 180 <223> OTHER INFORMATION: (Fig. 7) binding domain
 182 <400> SEQUENCE: 13
 183 gctagc
 186 <210> SEQ ID NO: 14
 187 <211> LENGTH: 6
 188 <212> TYPE: RNA
 189 <213> ORGANISM: Artificial
 191 <220> FEATURE:
 192 <223> OTHER INFORMATION: (Fig. 7) binding domain
 194 <400> SEQUENCE: 14
 195 ccgcgg 6
 198 <210> SEQ ID NO: 15
 199 <211> LENGTH: 47
 200 <212> TYPE: DNA
 201 <213> ORGANISM: Artificial
 203 <220> FEATURE:
 204 <223> OTHER INFORMATION: (Fig. 7) branchpoint
 206 <400> SEQUENCE: 15
 207 tactaactgg tacctcttct tttttttttg atatacctgca gggcgggc 47
 210 <210> SEQ ID NO: 16
 211 <211> LENGTH: 65
 212 <212> TYPE: DNA
 213 <213> ORGANISM: Artificial

Invalid Response⁴⁷
 Pls Explain the
 Source of Genetic
 Material! See
 Item # 11 on Error
 Summary sheet.

7 Same Error

RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/658,617

TIME: 10:47:36

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

215 <220> FEATURE:
216 <223> OTHER INFORMATION: (Fig. 10) Target and PTM sequence
218 <400> SEQUENCE: 16
219 ctctctggcct cgcgagatcc ctctcgtaa gggaggcaag cccgacgtcg tccagattgt 60
221 ccgca 65
224 <210> SEQ ID NO: 17
225 <211> LENGTH: 6
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: (Fig. 12) Luc-PTM13
232 <400> SEQUENCE: 17
233 ctgcag 6
236 <210> SEQ ID NO: 18
237 <211> LENGTH: 71
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: (Fig. 15) Luc-PTM1
244 <400> SEQUENCE: 18
245 ccgcggaaca ttattataac gttgctcgaa tactaactgg tacctcttct ttttttttg 60
247 atatcctgca g 71
250 <210> SEQ ID NO: 19
251 <211> LENGTH: 22
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial
255 <220> FEATURE:
256 <223> OTHER INFORMATION: (Fig. 15) Luc-PTM TSD
258 <400> SEQUENCE: 19
259 ctcgagcacc gatatcgtaa ct 22
262 <210> SEQ ID NO: 20
263 <211> LENGTH: 36
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial
267 <220> FEATURE:
268 <223> OTHER INFORMATION: (Fig. 25B) Functional 3' ss
270 <400> SEQUENCE: 20
271 tactaactct cttctttttt ttttgataac caggct 36
274 <210> SEQ ID NO: 21
275 <211> LENGTH: 35
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial
279 <220> FEATURE:
280 <223> OTHER INFORMATION: (Fig. 25B) Mutated 3' ss
282 <400> SEQUENCE: 21
283 gaacacctca ctacatacat aacagttaac ccgct 35

Same error

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/658,617

DATE: 10/13/2005
TIME: 10:47:37

Input Set : A:\10658617.txt
Output Set: N:\CRF4\10132005\J658617.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 2

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/658,617

DATE: 10/13/2005

TIME: 10:47:37

Input Set : A:\10658617.txt

Output Set: N:\CRF4\10132005\J658617.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0